

Wednesday – 12/14/2022 from 1:00 to 3:00 p.m.

Code	Title	Authors
4DMK	Parallel validation of a green-solvent extraction method and quantitative estimation of multi-mycotoxins in staple cereals using LC-MS/MS	Sefater Gbashi , Patrick Njobeh , Ntakadzeni Madala , Marthe De Boevre , Victor Kagot e Sarah De Saeger
4DNF	Mass spectrometry in environmental studies in the Russian Arctic	Dmitrii M. Mazur , Latkin Tomas , Artaev Vyatcheslav , Nikolai Ul'yanovskii , Dmitrii Kosyakov e Albert Lebedev
4DRA	Comprehensive Metabolome Analysis of Fermented Aqueous Extracts of <i>Viscum album</i> L. by LC-HRMS/MS	Evelyn Maribel Condori Penaloza , Carla Holandino , Claudia Scherr , Paula Ivens Pinto de Araújo , Ricardo Moreira Borges , Urech Konrad , Stephan Baumgartner e Rafael Garrett
4DRB	Non-target screening of Emerging organic pollutants and trace elements in marine sediments from the Eastern Mediterranean Lebanese coast before the blast in 2020	Mariam Zayter , Hugues Preudhomme e Celine Mahfouz
4DRF	Ultra-Short Transient Signal & Direct Analysis of Highly Interfered and Challenging Trace Element with the First Quadruple Quadrupole ICP-MS/MS	Soumya Gupta , Pierre-Luc Dupont , Patrick Espla , Hervé Pinaly e Hugues Preudhomme
4DRN	Application of advanced analytical techniques in the molecular geochemical investigation of oil in forensic studies × GC-TOFMS	Victor de Menezes Lopes Lessa , Vinicius Barreto Pereira , Debora de Almeida Azevedo , Francisco Radler Aquino Neto , Gabriela Vanini Costa , Daniella Lopez Vale e Alexandre de Oliveira Gomes
4DRQ	First study of saponins from the roots of <i>Quillaja brasiliensis</i> by liquid chromatography electrospray ionisation ion trap mass spectrometry	Federico Wallace , Zohra Bennadji , Fernando Ferreira e Cristina Olivaro

4DRR	Structural characterisation of phenolic compounds in <i>Quillaja brasiliensis</i> leaves by tandem mass spectrometry (DI-ESI-IT-MS ⁿ and LC-ESI-IT-MS ²)	Federico Wallace , Cintia Rodriguez , Fernando Ferreira e Cristina Olivaro
4DRT	Compound-specific carbon isotope study on the biomarkers from Amazonian floodplain lake	Vinicius Barreto Pereira , Alexander Andrey Lopes da Silva , Marco Aurélio Dal Sasso e Debora de Almeida Azevedo
4DRY	H/D Pooling of Benzoyl Derivatives: Improvement of quantitative analysis and lipidomic profiling using RP-UHPLC/MS	Ondrej Peterka , Robert Jirasko , Zuzana Vaňková , Jakub Idkowiak e Michal Holcapek
4DRZ	Detection of amino compounds by diethyl ethoxymethylenemalonate derivatization and neutral loss scan mode	Larissa Silva Maciel , Arianna Marengo , Koit Herodes e Ivo Leito
4DSG	How Variations in Structural Lipids Impact Scalp Hair Curliness	Michelle Mukonyora , Henry Adeola e Nonhlanhla Khumalo
4DST	Mechanisms of disinfection by-products formation in water treatment	Dmitrii M. Mazur , Artaev Vyatcheslav , Nikolai Ul'yanovskii , Dmitriy S. Kosyakov e Albert Lebedev
4DSV	Mass spectrometry as a taxonomy tool. Differentiation of frog species using their peptidomes	Tatiana Samgina , Irina Vasileva , Polonca Trebse e Albert Lebedev
4DTD	On-line HPLC-ABTS+ screening and LC/MS analysis of hydroethanolic extract obtained from <i>Achyrocline satureioides</i> (Asteraceae) plants, collected in Santander, Colombia.	Sheylla Tatiana Reyes Atuesta , Jairo René Martínez e Elena E. Stashenko
4DTE	GC/MS analysis of rosemary (<i>Salvia rosmarinus</i>) essential oil obtained by microwave-assisted hydrodistillation and steam distillation from plants cultivated in Santander (Colombia)	Brayann Yessid Martínez , Lady Johanna Sierra , Jairo René Martínez e Elena E. Stashenko
4DTH	GC/MS study of essential oils distilled from different parts of <i>Piper aduncum</i> species	Darlyng Fernanda Poveda Carreño , Rogerio Alejandro Sebastian Saavedra Barrera , Elena E. Stashenko e Jairo René Martínez

4DTN	GC/MS and GC/FID study of the essential oil distilled from thyme cultivated in Santander, Colombia	Sebastián Sepúlveda Ortega , Karen J. Ramírez , Lady J. Sierra , Jairo René Martínez e Elena E. Stashenko
4DTR	GC/MS chemical characterization of <i>Minthostachys mollis</i> (Lamiaceae) essential oil	Edwin Fernando Rugeles Garzón , Juan Camilo Henríquez Sanabria , Jairo René Martínez e Elena E. Stashenko
4DTT	UHPLC/ESI+-Orbitrap-MS analysis of <i>Psidium sartorianum</i> (Myrtaceae) hydroethanolic extract obtained from post-distillation plant waste material.	Manuel Camilo Solano Merchán , Juan Camilo Henríquez Sanabria , Jairo René Martínez e Elena E. Stashenko
4DTV	<i>Solanum crinitum</i> Lam. (Solanaceae): comprehensive chemical characterization of alkaloids from unripe and ripe fruits	Marcos Venicius Nunes , Webster Fernando de Carvalho Junior , Ana Paula Aparecida Pereira e Célio Fernando Figueiredo Angolini
4DTW	Characterization by GC/MS of volatile fraction from <i>Cymbopogon martinii</i> (Poaceae) essential oil and evaluation of its repellent activity against <i>Lasioderma serricorne</i>	Johanna Catalina Rosero Rosero , Jairo Rene Martinez e Elena E. Stashenko
4DTX	Carotenoid-Targeted Metabolomics of <i>Staphylococcus aureus</i> by LC-MS/MS: Metabolites Associated with Tolerance to Oxidative-Stress	Gerson-Dirceu López , Elizabeth Suesca , Gerardo Álvarez-Rivera , Adriana E. Rosato , Joseph Lorent , Elena Ibañez , Alejandro Cifuentes , Chad Leidy e Chiara Carazzone
4DTY	LC/MS study of <i>Hypericum carinosum</i> (Hyperaceae) hydroethanolic extract, obtained from post-distilled plant material	Felix Camilo Muñoz , Jairo René Martínez e Elena E. Stashenko
4DTZ	Expanding Urinary Metabolite Annotation through Integrated Mass Spectral Similarity Networking	Fausto Carnevale Neto e Daniel Raftery
4DV4	Insights to the differentiation of <i>Banisteriopsis caapi</i> varieties in ayahuasca samples using UHPLC-MS	Taynara Simão Matos , Álex Aparecido Rosini Silva , Flávia da Silva Zandonadi , Andreia de Melo Porcari e Alessandra Sussulini

4DVB	Understanding nano-bio interactions through the biomolecular corona: the role of mass spectrometry	Valentina Castagnola , Clarissa Braccia , Nara Liessi , Luca Maragliano , Mattia Bramini , Ester Vazquez , Fabio Benfenati e Andrea Armirotti
4DVC	Mycotoxins Profiles in Wheat	Cinthia Pendás e Alejandra Rodriguez-Haralambides
4DVD	Chemical profiles of Ginseng extracts in nutritional supplements	David Menchaca , María Victoria Panzl e Alejandra Rodríguez-Haralambides
4DVE	Exploring the Oxidative Stress Implications on Cardiac Cells: a Multiplatform Metabolomics Study	Alan Gonçalves Amaral , Monica Força Lima , Isabela Aparecida Moretto , Flávia da Silva Zandonadi , Hans Rolando Zamora Obando , Francisco Javier Rupérez , Coral Barbas , Regina Vincenzi Oliveira , Aline Mara dos Santos e Ana Valéria Colnaghi Simionato
4DVH	Evaluation of blood serum metabolite extraction protocols for optimization of LC-MS/MS analysis aiming at biomarker discovery	Mariana Silvera Marques , Patrick Ferreira , Thales F. D. Pereira e Alessandra Sussulini
4DVJ	Chemical profiles of medicinal herbs in yerba mate (<i>Ilex paraguariensis</i>)	María Victoria Panzl , David Menchaca e Alejandra Rodriguez-Haralambides
4DVN	Molecular evolution of the aquatic adaptations in marine mammals: an analytical study of the kidney proteomics-based mass spectrometry	Camila Morais Hime , Maurício Tavares , Raphaela Menezes de Oliveira , Salvatore Siciliano e Aline Maria Araújo Martins
4DVQ	Proteomics of axenic and intracellular amastigote lifeforms of <i>Trypanosoma cruzi</i> in replicative and non-replicative conditions	Reynaldo Magalhães Melo , Agnelo Rodrigues Souza , Jaques Miranda Ferreira de Souza , Agenor de Castro Moreira dos Santos Júnior , Marcelo Valle de Sousa , Luis Henrique Ferreira do Vale , Wagner Fontes , Beatriz Dolabela de

		Lima , Consuelo Medeiros Rodrigues de Lima , Izabela Marques Dourado Bastos e Carlos André Ornelas Ricart
4DVS	Characterization of volatile and semi-volatile organic compounds in library papers via comprehensive two-dimensional Gas Chromatography with Mass Spectrometry	Manoel Mendes Alves Junior , Thairine Lima dos Santos , Vinicius Barreto Pereira , Raquel Vieira Santana Silva e Celeste Yara dos Santos Siqueira
4DVT	Analysis of transformations of oxytetracycline in water/sediment systems by HPLC-MS ⁿ	Federico Martin Ivanic , Roberto Jorge Candal e Matías Butler
4DVW	MetaboHUB versus DEsCriBe: a broad investigation of phytochemical diversity in leaves and roots of Brassica napus	Millena C. Barros Santos , Cédric Cassan , Sylvain Prigent , Josep Valls , Sophie Colombie , Yves Gibon , Alain Bouchereau , Antoine Gravot e Pierre Petriacq
4DVX	The enzymatic proteome found in the venom gland of Actinopu ssp.	Dávila Regina Pacheco Silva , Frederico Francisco Fernandes , Camilo Elber Vital , Márcia Helena Borges e William de Castro Borges
4DVZ	Metabolomic Characterization of Agronomic Interesting Bacillus Strains	Laís Castro de Carvalho , Fernanda Silva Ribeiro , Isabella Takahashi Kitano , João Vitor Butzge e Célio Fernando Figueiredo Angolini
4DW2	Sample preparation and LC-MS/MS for metabolomic analysis of plasma and leukocytes from patients with COVID-19	Paulo Emílio Pereira Barci , Yingying Zheng , Patricia Palmeira e Alvaro Santos-Neto
4DW4	Deciphering plant pathogenic fungi and rhizosphere bacteria interactions via genomic and metabolomic characterization	Arnaldo de Almeida Junior , Laís Castro de Carvalho , Isabella Takahashi Kitano , João Vitor Butzge e Célio Fernando Figueiredo Angolini

4DWA	Untargeted Metabolomics Profiling of Plasma and Urine from Patients with Primary Biliary Cholangitis	Regina Vincenzi Oliveira , Juliana Magalhães de Oliveira , Thais de Assis Lopes , Alex Castro , Étore F. Signini , Juliana Goldbaum Crescente , Aparecida Maria Catai e Eduardo Luiz R. Cançado
4DWC	Toxin signatures in the venom gland of Actinopus´ trapdoor spider	Frederico Francisco Fernandes , Camilo Elber Vital , Marcia Helena Borges e William de Castro Borges
4DWE	Evaluation of apolipoprotein expression profile during experimental infection by Schistosoma mansoni in the BALB/c mouse	Lara Geralda Magela dos Santos Vieira , Gustavo Gonçalves Silva , Camilo Elber Vital e William de Castro Borges
4DWF	Plasma Metabolomic Profiling of Patients with Wilson Disease	Thais de Assis Lopes , Juliana Magalhães de Oliveira , Juliana Goldbaum Crescente , Eduardo Luiz Rachid Cançado e Regina Vincenzi Oliveira
4DWH	Proteomic analysis reveals differences between populations of Myrsine coriacea (Primulaceae) subjected to common garden conditions	Roberta Pena da Paschoa , Vitor Batista Pinto , Mário Luís Garbin , Paulo César Cavatte , Tiago Oliveira Godinho , Lucas Rodrigues Xavier , Tatiana Tavares Carrijo e Vanildo Silveira
4DWK	Chemical characterization of a potential anti-SARS-CoV-2 Ampelozizyphus amazonicus Ducke (Saracura-mirá) bark extract by LC-DAD-APCI-MS/MS	Mariana Freire Campos , Simony Carvalho Mendonça , Evelyn Maribel Condori Penaloza , Beatriz Albuquerque Custódio de Oliveira , Gilda Guimarães Leitão , Diego Allonso e Suzana Guimarães Leitão
4DWQ	Paper Spray Mass Spectrometry applied on lactose analysis of clarified butter samples	Túlio Miranda Sepulveda , Brenda Lee Simas Porto e Rodinei Augusti

4DWS	Study of the chemical variation of <i>Coleus amboinicus</i> Lour. alcoholic extracts due to growing conditions	Gabriela Ferreira da Silva , Guilherme Perez Pinheiro e Alexandra Christine Helena Frankland Sawaya
4DWT	Hyperglycemic culture media is detrimental to oviductal epithelial cell submitted to in vitro system cultured	Patricia Kubo Fontes , Camila Bruna de Lima , Erika Cristina dos Santos , Célio Fernando Figueiredo Angolini e Marcella Pecora Milazzotto
4DWW	Multiresidues pesticides routine analysis in vegetable samples by UHPLC-MS/MS using Thermo Scientific Pesticide Explorer Solutions Database	Graziela Andrade , Claudia M. Barbosa , Julio C. C. Silva e Sérgio H. Monteiro
4DWW	Comparison of the volatilome of <i>Staphylococcus aureus</i> grown in nutrient medium and biofilm by GC/MS	Juan Esteban González Martínez , Elizabeth Suesca Sanchez , Gerson-Dirceu López , Chiara Carazzone e Chad Leidy
4DWX	Serum proteome depletion and enrichment methods in the context of <i>Schistosoma mansoni</i> infection in the murine model	Iara Araújo Ferreira , Lara Geralda Magela dos Santos Vieira , Gustavo Gonçalves Silva , Camilo Elber Vital e William de Castro Borges
4DX2	Assessment of environmental contamination by sewage using LC-MS/MS for analysis of sediments from the Ipojuca River, Pernambuco - Brazil	Ana Flavia Barbosa de Oliveira , Bruna Ramos de Souza Gomes , Rebeca dos Santos França , Giovana Anceski Bataglioni , Alex Souza Moraes e Jandyson Machado Santos
4DX4	Monoterpene indole alkaloids from <i>Psychotria densicostata</i> leaves by HPLC-DAD-ESI-MS/MS	Virginia Garcia Correia , Victor Freitas de Jesus , Jéssica Oliveira Costa , Rodolfo Souza Barboza , Mario Gomes , Ligia Maria Marino Valente e Marcelo Raul Romero Tappin
4DX6	Menopause modifies the effect of depression on plasma lipids	Adriana Pereira de Souza , Maria Fernanda Naufel , Amanda Paula Pedroso

		, Valter Tadeu Boldarine , Helena Hachul , Lila Missae Oyama , Eliane Beraldi Ribeiro , Edson Guimarães Lo Turco e Monica Marques Telles
4DXB	Phytochemical profile and antiviral activity of ethanolic extract of <i>Costus arabicus</i> L. leaves	Alice Rhelly Veloso Carvalho , Ariane Coelho Ferraz , Marília Bueno da Silva Menegatto , Abraão de Jesus Barbosa Muribeca , Paulo Wender Portal Gomes , José Diogo Evangelista Reis , Sônia das Graças Santa R. Pamplona , Cintia Lopes de Brito Magalhães , Milton Nascimento da Silva e Consuelo Yumiko Yoshioka e Silva
4DXD	CCS-UFRJ extract bank: chemical characterization of Myrtaceae species by UHPLC- MS/MS and chemometric analyses	Simony Carvalho Mendonça , Brendo Araujo Gomes e Suzana Guimarães Leitão
4DXE	Optimization of Methodologies for Analyses of Cell Proteomes	Francielle Aguiar Gomes , Graziella Eliza Ronsein e Mariana Pereira Massafra
4DXH	Chemical characterization and evaluation of the biological potential of extracts and alkaloids isolated from <i>Palicourea corymbifera</i> (Müll. Arg.) Standl. (Rubiaceae)	Julio Cesar Maceda Santivañez e Célio Fernando Figueiredo Angolini
4DXJ	Speciation of Methyl Mercury and Mercury in Honey using High Performance Liquid Chromatography hyphenated with Inductively Coupled Plasma Mass Spectrometry	Giselaine Alves dos Santos
4DXP	Determination of macrolide antibiotic residues and metals in infant formulas by mass spectrometry based methods	Bernardete Ferraz Spisso , Mararlene Ulberg Pereira , Rosana Gomes Ferreira , Silvana do Couto Jacob , Cristiane Barata Silva , Carolina Duque Magalhães , Mayssa de Andrade Fonseca , Santos

		Alves Vicentini Neto , Rennan Geovanny Oliveira e Lisia Gobbo dos Santos
4DXT	Mass Spectrometry as a Quality Verification Tool in Automotive Lubricant Oils	Caroline Pais de Carvalho , Adriano Reis José da Silva , Rosineide Costa Simas e Marcos Nogueira Eberlin
4DXY	The use of masspec pen to obtain the profile of chemical markers in wood	Adriano Reis José da Silva , Caroline Pais de Carvalho , Alicia Camacho dos Santos , Iasmim Lopes Lima , Livia Schiavinato Eberlin e Marcos Nogueira Eberlin
4DY6	Molecular networking for annotation of new limonoids from the Swietenia macrophylla King leaves	José Diogo Evangelista Reis , Alice Rhelly Veloso Carvalho , Paulo Wender Portal Gomes , Paulo Roberto da Costa Sá , Sônia Pamplona , Abraão Muribeca , Consuelo Yumiko Yoshioka e Silva e Milton Nascimento da Silva
4DYD	Proteomics signature of leukocytes of Brazilian patients with Cartilage-Hair Hypoplasia	Maria Eduarda Gomes Ferreira Neves , Bruna Luísa Franco Fadel , Nicole Woldmar , Denise Pontes Cavalcanti , Têmis Maria Félix , Dafne Dain Gandelman Horovitz , Fábio César Sousa Nogueira , Juan Clinton Llerena Jr. , Luciana Pizzatti e Sayonara Gonzalez
4DYE	Visualization of Lanthanum Precipitates in Gastric Tissue by Laser Ablation- Inductively Coupled Plasma-Mass Spectrometry Imaging	Lucas Marinho Nóbrega de Assis , Shuichi Shimma e Koji Okuda
4DYG	Response surface methodology applied to LC-QToF mass spectrometer parameters optimization for untargeted metabolomics investigations	Olívia Brito de Oliveira Moreira e Marcone Augusto Leal de Oliveira
4DYH	Multiclass Analytical Method for Pesticide and Mycotoxin Analysis in Malt, Brewers' Spent Grain, and Beer: Development, Validation, and Application	nilsrael alves pires , Mauro Lucio Gonçalves De Oliveira , José Ailton Gonçalves e Adriana Ferreira Faria

4DYJ	Widely targeted metabolomics of 142 hydrophilic compounds in beer using liquid chromatography-single quadrupole mass spectrometer	Luísa Barrella Ambrosio
4DYM	Assessment of environmental contamination of sediments from the Capibaribe River in Pernambuco/Brazil using LC-MS/MS and GC/MS for biomarkers detection	Bruna Ramos de Souza Gomes , Rayane Maria do Nascimento , Rebeca dos Santos França , Giovana Anceski Bataglion , Alex Souza Moraes e Jandyson Machado Santos
4DYR	Characterization of flavonoids present in Foeniculum vulgare by LC-MS/MS	Neide Mara de Menezes Epifanio , Piotr Kachlicki , Marcin Ożarowski e Douglas Siqueira de Almeida Chaves
4DYS	Development and validation of HPLC-MS/MS methods for simultaneous determination of six N-nitrosamines impurities in losartan and valsartan pharmaceutical products	Mychelle Alves Monteiro , Patrícia Condé de Lima , Thiago Santana Novotny , Daniela S. Santana , Maria Emanuelle Damazio Lima , Anna Sophia Conhasco Lanzellotti Dantas , Laís Oliveira dos Santos , Matheus N. de Souza e Soraya de Mendonça Ochs
4DYT	Development and validation of methods for quantification of six N-nitrosamines impurities in olmesartan and irbesartan pharmaceutical products by HPLC-MS/MS	Soraya de Mendonça Ochs , Patrícia Condé de Lima , Thiago Santana Novotny , Daniela Silva Santana , Maria Emanuelle Damazio Lima , Anna Sophia Conhasco Lanzellotti Dantas , Laís Oliveira dos Santos , Matheus N. de Souza e Mychelle Alves Monteiro
4DYX	Automated PY-GCMS Workflow for the Qualitative and Quantitation Analysis of Microplastics in Environmental Samples	Alan Owens , Andy Sandy , Yoshiyuki Okamura , Ruth Marfil-Vega e Ricardo Tamashiro Reis
4DYZ	Quantitation of Ethylene Oxide (EtO) and 2-Chloroethanol (2-CE) in sesame seeds by using dynamic headspace GC-MS/MS	Sanket Anand Chiplunkar , Aseem Wagle , Rahul Dwivedi , Durvesh Sawant ,

		Dheeraj Handique , Prashant Hase , Nitish Ramchandra Suryawanshi , Satyendra Singh , Jitendra Kelkar / Pratap Rasam e Rodrigo Ossamu Saga Kitamura
4DZ4	Quantitation of 6 N-Nitrosamines in Metformin & 5 Sartan APIs as per the EDQM method Procedure C	Nitish Ramchandra Suryawanshi , Sanket Anand Chiplunkar , Dheeraj Handique , Prashant Hase , Durvesh Sawant , Aseem Wagle , Rahul Dwivedi , Satyendra Singh , Jitendra Kelkar / Pratap Rasam e Ana Caroline Martimiano
4DZB	Evaluation of filtration agents efficiency in drinking water by Mass Spectrometry methods	Gabriel Matias da Silva , Gustavo Guerreiro Candido Soares , Ana Isabela Pianowski Salussoglia , Jose Mauricio Rosolen e Luiz Alberto Beraldo de Moraes
4DZG	UHPLC-MS Analysis of Kalanchoe spp. Popularly Known as "Saião": In a Search for Further Evidence About Their Differences and Intraspecific Sources of Variation	Guilherme Perez Pinheiro e Alexandra Christine Helena Frankland Sawaya
4DZH	Volatile organic compounds artificially emitted by dynamic releasers and investigated by Thermal Desorption-Gas Chromatography-Mass Spectrometry reproduces the emission-pattern from Arabidopsis thaliana	Tatiana Aparecida Mulinari , Haroldo Xavier Linhares Volpe , Rejane Angélica Grigio Luvizotto , Nelson Arno Wulff , Michele Carmo-Sousa , Victor Pena Ribeiro , Jairo Kenupp Bastos , Leandro Peña e Rodrigo Facchini Magnani
4DZM	Discovery of Chagas disease urinary biomarkers during the acute and chronic phase in a murine model	Gilberto Santos de Oliveira , Rogerio Silva do Nascimento , Verônica Feijoli Santiago , Rebeca Kawahara , Janaina Macedo da Silva , Lívia Rosa Fernandes , Cláudio Romero Farias Marinho , Martin

		Røssel Larsen , José Maria Alvarez Mosig e Giuseppe Palmisano
4DZQ	Helium assisted Desorption and Ionization	Andre R Venter , Roshan Javanshad , Rajendra Panth , Tara Lynne Maser e Bincy Binny
4DZR	Chemical composition of propolis from the Amazon region	Brícia Marques Parreiras , André Rodrigo Rech e Adriana Nori de Macedo
4DZW	Laser ablation electrospray ionization mass spectrometry imaging as a new tool for accessing patulin diffusion in mold-infected fruits	Gesiane da Silva Lima , Gabriel Franco Santos , Ruver Rodrigues Feitosa Ramalho , Deborah Victoria Alves de Aguiar , Jussara Valente Roque , Lanaia Ítala Louzeiro Maciel , Rosineide Costa Simas , Igor Pereira e Boniek Gontijo Vaz
4DZX	Toltrazuril and metabolites analysis in poultry muscles	Vanessa Gressler , Francisco Noé da Fonseca , Lana Flávia Baron , Karina Paese e Ana Paula Almeida Bastos
4E24	Comparison of ²³⁸ U mass fraction measured by ICP–MS and Instrumental Neutron Activation Analysis techniques	Bruno Tappiz , Paulo Sergio Cardoso da Silva , Caroline Kako Ostermann , Nicole Pereira de Lima , Mariana Novais Andrade e Oscar Vega-Bustillos
4E26	Method development and validation to identify and quantify Vanillylmandelic acid (VMA), Homovanillic acid (HVA), and 5-hydroxyindoleacetic acid (5-HIA), biogenic amines related to carcinoid tumors and neuroblastomas, by LC-MS/MS.	Luiz Carlos Fialho Junior , Breno Frederico Pereira Paulo , Vanessa Gonçalves Milagres e Danielle Alves Gomes Zauli
4E2B	SandPaper Spray Mass Spectrometry (SPS-MS): a new technique for direct analysis of polishable matrix	Diego Magalhães Costa e Rodinei Augusti
4E2E	Validation of qualitative methods for pesticide screening in surface and underground water	Júlia Célia Lima Gomes , Adriana Nori de Macedo , Lucas Pinto da Silva , Marina Caneschi de Freitas , Mariana Ramos

		Almeida , Millena Christie Ferreira Avelar , Ricardo Mathias Orlando e Rodinei Augusti
4E2F	Analysis of Komagataella phaffii metabolites using mass spectrometry	Miria Almeida Souza
4E2G	Determination of Dimethyltryptamine (DMT) in Samples of Zebrafish (Danio Rerio) Using Mass Spectrometry Imaging	Mariana Cavalcante E Almeida Sa , Caroline Pais de Carvalho , Marcos Nogueira Eberlin , Álex Aparecido Rosini Silva , Andreia de Melo Porcari e Ana Carolina Luchiari
4E2H	Comparing IR, NMR, and MS techniques as suitable forensic techniques to distinguish original and counterfeit perfumes	Patrícia Gonçalves do Prado Cardoso de Menezes , Claudia Elizabeth Fernandes de Castro , Iasmim Lopes Lima , Alicia Camacho dos Santos , Caroline Pais de Carvalho , Adriano Reis José da Silva , Ana María Garzón Porrás e Marcos Nogueira Eberlin
4E2N	Pesticide residues in honeybees by LC–MS/MS screening: Reported death incidents in honeybees in Brazil	Andrea Machado , Aroni Sattler e Marcos Nogueira Eberlin
4E2P	Endocannabinoid system impact on the proteomic profile of neural cells: implications in schizophrenia	Giuliana da Silva Zuccoli , Livia Ramos da Silva , Valeria de Almeida , Victor Corasolla Carregari , Antonio Waldo Zuardi , Jaime Eduardo Cecilio Hallak , José Alexandre de Souza Crippa e Daniel Martins-de-Souza
4E2Q	Proteome-wide alterations in the epimastigote and metacyclic trypomastigotes stages of virulent and non-virulent T cruzi strains	Lays Adrienne Mendonça Trajano Silva , Deivid Martins Santos , Simon Mule , Walter Colli , Graziella Eliza Ronsein ,

		Maria Julia Manso Alves e Giuseppe Palmisano
4E2V	Metabolic fingerprinting applied to unravel the impact of germination on the phenolic profile of Sorghum bicolor	Carolina Thomaz dos Santos D'Almeida , Lynda Abdelbost , Marie-Hélène Morel , L.C. Cameron , Hamza Mameri e Mariana Simões Larraz Ferreira
4E2Y	Exploring Saliva Metabolomics to Investigate Biomarkers for Wilson Disease	Julia Lima Ribeiro Ferro , Thais de Assis Lopes , Juliana Magalhães de Oliveira , Alex Castro , Juliana Goldbaum Crescente , Eduardo Luiz Rachid Cançado e Regina Vincenzi Oliveira
4E2Z	Metabolomics applied to the study of anxiety	Camila Maiara Rocha Teles e Alessandra Sussulini
4E46	Molecular characterization of Calu-3 cells from submerged to Air-liquid interface culture: an in vitro model for lung infections	Deivid Martins Santos , Simon Mule , Claudia Blanes Angeli , Antonio Moreira Marques Neto , Vinicius de Moraes Gomes , Janaina Macedo da Silva , Cláudio Romero Farias Marinho , Lívia Rosa Fernandes e Giuseppe Palmisano
4E4C	Development of a comprehensive two-dimension gas chromatography with hybrid time-of-flight analyzer (GCxGC/Q-TOFMS/MS) method for pesticides analysis in surface waters	Nayara Silva Fraga , Helvécio Costa Menezes e Zenilda de Lourdes Cardeal
4E4D	LC-MS Screening of potential inhibitors of proteases (3CLpro and PLpro) and spike protein of SARS-CoV-2 virus: bioprospecting five Siparuna species using chemometric tools	Diégina Araújo Fernandes , Brendo Araujo Gomes , Mariana Freire Campos , Larrisa Esteves carvalho Constant , Beatriz Albuquerque Custódio de Oliveira , Stephany da Silva Costa , Giovanna Barbosa Frensel , Suzana Guimarães

		Leitão , Diego Allonso e Gilda Guimarães Leitão
4E4E	Evaluation of two statements methods by TD-GC-MS/TOF to BVOCs concentrations above the Amazon canopy	Beatriz Soto Rovelo , Caroline Kako Ostermann , Jonathan Williams , Bruno Tappiz , Nora Zannoni , Alex Guenther e Oscar Vega-Bustillos
4E4P	UPLC-ESI-Orbitrap-MS analysis for chemical annotation of Ocotea diospyrifolia metabolites	Matheus Fernandes Alves , Albert Katchborian Neto , Rosana Casoti , Danielle Ferreira Dias , Marisi Gomes Soares e Daniela Aparecida Chagas-Paula
4E4Q	Development of mixed matrix membranes decorated with silica-cdots nanocomposites as tools for decontamination of water containing bisphenol A using MS	Laura Chaluleu Lieb , Luccas Lossano Name , Daniel Yaezu Tiba , Octavio Pereira Lopes de Souza , Aprys Cristina Travassos Sarinho dos Santos Oliveira e Thiago da Cruz Canevari
4E4R	Sneaky impact resulting from the transformations of palm stalks :palm groves of Cameroon.	Masoh Tatiana Sahfor , Ruban Vincent Pierre e Akum Gideon Tetuh
4E64	Evaluation of the stability of pyrethroid and anilinopyrimidine pesticides in wine using liquid chromatography coupled to tandem mass spectrometry	Ana Paula Ferreira de Oliveira , José Ailton Gonçalves e Isabela da Costa César
4E66	Optimization of serum sample derivatization process by Design of Experiments for GC-MS based metabolomics	Hans Rolando Zamora Obando , Victória de Paula Andrade , Andre Luiz Melo Camelo , Flávia Bernardo dos Santos , Aline Cristina Dias e Ana Valéria Colnaghi Simionato
4E6B	Characterization of omega-3 fatty acids in fish oil supplements by ESI(+)-MS with emphasis on product quality	Leonardo Ayzawa Queiroz Quadra da Silva , Gabriel Gosling Stollar , Caroline

		Pais de Carvalho , Giuliana Milani Pantoja Telles de Menezes , Marcos Nogueira Eberlin e Rosineide Costa Simas
4E6C	Neuroprotective and anti-inflammatory biomarkers discovered by untargeted metabolomics: UPLC-ESI-QTOF/MS study bioprospecting psychedelic and bioactive plants from endangered biomes in Brazil	Albert Katchborian Neto , Wanderleya Toledo dos Santos , Michael Murgu , Ana Cláudia Chagas Ladvoat , Danielle Ferreira Dias , Marisi Gomes Soares e Daniela Aparecida Chagas-Paula
4E6D	Prediction of potential inhibitors of 3CLpro and PL proteases and spike protein by LC-MS and chemometrics: bioprospecting Lippia species	Brendo Araujo Gomes , Thamirys Silva da Fonseca , Mariana Freire Campos , Larissa Esteves Carvalho Constant , Rayane da Cruz Albino , Beatriz Albuquerque Custódio de Oliveira , Stephany da Silva Costa , Giovanna Barbosa Frensel , Danilo Ribeiro de Oliveira , Gilda Guimarães Leitão , Diego Allonso e Suzana Guimarães Leitão
4E6F	New approaches for enhancing the detection of neurotransmitters using the Katritzky reaction by PSI-MS and DESI-imaging	Lanaia Ítala Louzeiro Maciel , Ruver Rodrigues Feitosa Ramalho , Raul Izidoro Ribeiro , Mauro Cunha Xavier Pinto , Igor Pereira e Boniek Gontijo Vaz
4E6M	Comparison between MALDI-TOF MS and liquid chromatography with fluorescence detection-based methods for sialic acid identification and quantification Sialic Acids, DMB derivatization, MALDI-TOF MS, 3-Hydroxypicolinic acid	Antonio Moreira Marques Neto , Claudia Blanes Angeli e Giuseppe Palmisano
4E6N	UPLC-HRMS-based metabolomic approach for the evaluation of variations in chemical composition of Isabel precoce grapes	Francisco Leomar da Silva , Davila Zampieri , Elenilson G. A. Filho e Lorena Mara Alexandre e Silva

4E6P	Sourdough fermentation as strategy to decrease allergenic wheat fractions in dough bread: a proteomics approach	Mariana Pinheiro Costa Pimentel , Leidiane Andreia Acordi Menezes , Thais de Oliveira Alves , Talita Pimenta do Nascimento , Joseph Albert Medeiros Evaristo , Fábio César Sousa Nogueira , Mariana Simões Larraz Ferreira e Juliano de Dea Lindner
4E6Q	The advances of Forensic Chemistry on the molecular investigation of new psychoactive substances	Gabriela Vanini Costa e Francisco Radler Aquino Neto
4E6R	Identification of multi-omic molecular patterns using machine learning	Licia C. Silva-Costa , Victor Corasolla Carregari , Bradley Joseph Smith e Daniel Martins-de-Souza
4E6S	Urine and serum metabolomic study of patients suffering from deficient in ATP synthase, short-chain fatty acid acyl CoA dehydrogenase and their combinations	Dana Dobešová , Matúš Prídavok , Eliška Ivanovová , Barbora Piskláková , Aleš Kvasnička e David Friedecký
4E6X	Imaging Mass Spectrometry of lipids in brains of the offspring of pregnant female mice infected with Zika virus and chronically exposed to saxitoxin	Tiago Gomes , Raissa Rilo Christoff , Patricia Pestana Garcez , Cristiana Santos de Macedo e Flavio Alves Lara
4E6Z	Low-temperature plasma mass spectrometry (LTP-MS) coupled to a temperature-controlled heated sample holder for the analysis of gun powders (GPs)	Mariana Cristine Coelho Diniz , Luísa Guerra Rosa , Fabiana de Moura , Matheus Campos Quintão , Yuri Machado , Rogério Araújo Lordeiro , Rodinei Augusti e Mariana Ramos Almeida
4EA2	Quality evaluation of Amazonian salvias de marajó (Verbenaceae and Lamiaceae)	Rayane da Cruz Albino , Victor Paulo Ferreira , Anna Paola Trindade Rocha Pierucci , Suzana Guimarães Leitão e Danilo Ribeiro de Oliveira
4EAB	Preliminary screening of Annonaceae species against Leishmania sp by MS/MS Molecular Networking and in vitro assays	Marcos Vinicius Toledo e Silva , Brendo Araujo Gomes , Fernanda de Lemos

		Fernandes de Assis , Thamirys Silva da Fonseca , Andreza Raposo Garcia , Renata Priscila Barros de Menezes , Igor de Almeida Rodrigues , Marcus Tullius Scotti e Suzana Guimarães Leitão
4EAH	Early Alterations in the Bioactive Lipid Pattern in Human Kidney Cells Subjected to Ischemia by LC-HRMS/MS: A Preliminary Study of New Biomarkers for Kidney Diseases	Gloria Maria Ramalho Soares Grelle , Marcelo Einicker Lamas e Rafael Garrett
4EAJ	Analysis of Komagataella phaffii metabolites using mass spectrometry	Miria Almeida Souza , Clara Vida Galvão Corrêa Carneiro , João Ricardo Moreira de Almeida e Patricia Verardi Abdelnur
4EAK	Metabolic alterations in FABP4-deleted murine macrophages infected by Leishmania spp	Andre Luiz Melo Camelo , Mariana Borges Costa Brioschi , Aline Cristina Dias , Ayra Mahalla de Souza , Hans Rolando Zamora Obando , Danilo Ciccone Miguel e Ana Valéria Colnaghi Simionato
4EAM	Study of organic pollutants present in sludge generated in a Water Treatment Plant by comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry	Luciana Nascimento Rocha Mangelli , Tiago Schena , Felipe Cury Mazza e Carin von Muhlen
4EAR	Normalization of targeted proteomics data for determining the relative abundance of calpain variants in different evolutive forms of T. cruzi	Marcelle Almeida Caminha , Giselle Villa Flor Brunoro , Marlon D M Santos , Paulo Costa Carvalho , Flávia Nader Motta , Jaime Santana , Richard Hemmi Valente e Rubem Figueiredo Sadok Menna-Barreto
4EAS	Exploring the phenolic diversity of seven cereals and their coproducts by MS-based metabolomics	Luciana Ribeiro da Silva Lima , Millena C. Barros Santos , Álvaro Fernández Ochoa e Mariana Simões Larraz Ferreira

4EAX	Assessment of exposure to organochlorine pesticides in Cidade dos Meninos, Duque de Caxias city, Rio de Janeiro, by gas chromatography with tandem mass spectrometry.	Tatyane Pereira dos Santos , Heldis Beloni de Oliveira , Sergio Rabello Alves e Ana Cristina Simões Rosa
4EAY	Multiresidue analysis of pesticides in drinking water by solid phase extraction and gas chromatography with tandem mass spectrometry.	Ruan Victor Ferreira Soares e Lilian Mendonça Penna
4EAZ	Evaluation of vector control workers in Rio de Janeiro State for organochlorine pesticides in blood plasma by CG-MS/MS.	Heldis Beloni de Oliveira , Tatyane Pereira dos Santos , Ariane Leites Larentis , Leandro Vargas Barreto de Carvalho , Ana Paula das Neves Silva , Jordana Araújo Gonçalves , Eline Gonçalves Simões , Sergio Rabello Alves e Ana Cristina Simões Rosa
4EB2	Analytical methodology for determination of glyphosate residues in papaya using ESI-LC-MS/MS	Renata de Oliveira Silva , Felipe Sousa da Silva , Crisiana de Andrade Nobre , Maria Aparecida Liberato Milhome e Ronaldo Ferreira do Nascimento
4EB4	LSD quantification and identification of metabolites in <i>C. elegans</i> by Ultra-High Performance Liquid Chromatography coupled with High Resolution Mass Spectrometry	Christiane Martins de Vasconcellos Silveira , Vanessa Farelo dos Santos , Isis Moraes Ornelas , Henrique Marcelo Gualberto Pereira e Magno Junqueira
4EBA	Unravelling the immunomodulatory role of nitro-cLA and its relation to metabolic health indicators	Mariana Peter Pires Silva da Cruz , Hygor Marcos Ribeiro de Souza , Alexandre Torres , Benjamin Jenkins e Albert Koulman
4EBB	Comprehensive two-dimensional gas chromatography quadrupole mass spectrometry for the analysis of volatile compounds in guabiroba fruits	Stefany Grutzmann Arcari , Barbara Giocastro , Peter Quinto Tranchida , Paola Dugo e Luigi Mondello
4EBC	Characterization of green coffee beans from Cerrado Mineiro using Paper Spray Mass Spectrometry (PS-MS)	Larissa Batista Santos , Rodinei Augusti e Mariana Ramos Almeida

4EBE	Potential pancreatic anti-amyloid agents from Brazilian plants	Thamirys Silva da Fonseca , Mariana Freire Campos , Celimar S. Silva , Talita Pimenta do Nascimento , Aline Soares Silva , Fernanda Leitão , Rogélio Pereda-Miranda , Gilda Guimarães Leitão , Luís Maurício T. R. Lima e Suzana Guimarães Leitão
4EBG	Searching for metabolic changes during plant-herbivore interactions: The case of Brassicaplants	Abigail Moreno Pedraza
4EBQ	A new approach to analyze polar compounds using a paper modification by PSI-MS	Gabriel Henry Morais Dufrayer , Igor Pereira da Silva , Marcella Ferreira Rodrigues , Rafael Oliveira Martins , Jussara Valente Roque , Gabriel Franco Santos , Rosineide Costa Simas , Andrea Rodrigues Chaves e Boniek Gontijo Vaz
4EC2	Influence of dry process on color, antioxidant activity and presence of pesticide residues detected by LC-MS/MS in pineapple crown flour	Talita Braga de Brito Nogueira , Ana Elizabeth Cavalcante Fai e Mariana Simões Larraz Ferreira
4ECA	Comprehensive chemical characterization of alkaloids from fruits <i>Solanum jussiaei</i> (Solanaceae)	Webster Fernando de Carvalho Junior , Célio Fernando Figueiredo Angolini , Marcos Venicius Nunes e Ana Paula Aparecida Pereira
4ECB	APEX2-based proteomic mapping of <i>Plasmodium falciparum</i> mitochondrion	Lucas Silva de Oliveira , Farah Camila Murtadha , Marcos Rodrigo Alborghetti e Sébastien Charneau
4ECE	A fast and novel urine toxicology screening method using DART-MSMS	Francois Espourteille

4ECG	LC-MS analysis of phenolic compounds from <i>Dianthus caryophyllus</i> spp. flowers and study of their antioxidant activity by HPLC-ABTS+	Lady Johanna Sierra , Jesica Julieth Mejía Medina , Jairo René Martínez e Elena E. Stashenko
4ECH	Proteomic changes during developmental trajectory of human brain organoid and corpus callosum agenesis patient protein signature	Michele Rodrigues Martins , Livia Goto Silva , Fábio César Sousa Nogueira , Fernanda Tovar-Moll , Stevens Kastrup Rehen e Magno Junqueira
4ECK	Determination of degradation products of ether amine flotation agents used in mining activities by UHPLC-HRMS	Luciene Paiva Moreira da Silva , Adriana Nori de Macedo , Lucas Pinto da Silva e Rodinei Augusti
4ECQ	Assessment of pyrethroids pesticides levels in environmentally exposed population at Rio de Janeiro city by HPLC-MS/MS	Ana Cristina Simões Rosa , Heldis Beloni de Oliveira , Tatyane Pereira dos Santos , Ana Paula das Neves Silva , Jordana Araújo Gonçalves , Eline Gonçalves Simões , Sergio Rabello Alves e Paula de Novaes Sarcinelli
4ECW	Determination of pesticide residues in brazilian olive oil using liquid chromatography coupled to low and high resolution mass spectrometry	Luana Floriano , Rosalía López-Ruiz , Antonia Garrido Frenich , Renato Zanella e Osmar Damian Prestes
4ECX	LC-MS/MS proteomic tools to achieve the behavior of gluten proteins in raw, cooked and extruded wheat products	Thais de Oliveira Alves , Sabrina Maria Geisslitz , Katharina Anne Scherf , Cristina Yoshie Takeiti e Mariana Simões Larráz Ferreira
4EDB	Dilute-and-shoot Analytical Method for determination of multimycotoxin in liver and meat products	Mateus Batista Gomes , Eliene Alves dos Santos , Eugênia Azevedo Vargas , Gabriel Barros de Oliveira , Rafael Pissinatti e Mary Ane Gonçalves Lana

4EDD	Quantitative Analysis of Cannabis sativa Oils from Brazilian Medicinal Cannabis Association using High-Resolution Mass Spectrometry	Luis Otávio Junqueira , Isabel Vitória Costa Fulchini , Joice Rodrigues dos Santos e Diogo de Oliveira Silva
4EDE	Evaluation of exposure of polybrominated diphenyl ethers in puerperal women to in Rio de Janeiro city	Julio Cesar Simões Rosa , Sergio Rabello Alves , Ana Cristina Simões Rosa , Eline Gonçalves Simões , Thelma Pavesi , Vanessa Emídio Dabkiewicz e Tatyane Pereira dos Santos
4EDF	Photoreduction and photophysical characterization of hydroxy-nitrobenzoic acids as potential UV MALDI matrices maldi	Oscar Enrique Silva Rodriguez , Gabriela Petroselli , Hernán Bernardo Rodriguez e Rosa Erra Balsells
4EDN	ESI-MS as a tool for understanding the performance of Z- and E-synapinic acids as MALDI matrices at molecular level: Study of complexes with carbohydrates.	Rosa Erra Balsells , Tobias Schmidt de Leon , Maria Laura Salum , Maria Eugenia Monge , Yasuyuki Matsushita e Kazuhiko Fukushima
4EDQ	Characterization of antibacterial proanthocyanidins of Dalbergia monetaria L.f. using HR UHPLC-MS ⁿ and Molecular Networking approach	Patricia Homobono Brito de Moura , Carla Monteiro Leal , Roberto Carlos Campos Martins e Ivana Correa Ramos Leal
4EE2	Fish oil supplementation during pregnancy reprograms maternal high-fat diet-induced liver endocannabinoid system changes in neonate rats	Larissa de Brito Fassarella , Camilla P. Dias-Rocha , Jessika Geisebel O. Neto , Mariana Macedo de Almeida , Gustavo Ramalho Cardoso dos Santos , Henrique Marcelo Gualberto Pereira , Carmen Cabanelas Pazos de Moura e Isis Hara Trevenzoli
4EEF	Proteome changes of serum-derived extracellular vesicles in patients with congenital zika syndrome	Leticia Gomes de Pontes , Renata Harumi Cruza , Patrick da Silva , Thaís Regiani Cataldi e Antonio Condino-Neto

4EEG	Beta-Agonists residues in bovine liver, method development and validation plan according to commission implementing regulation (EU) 2021/808	Ana Claudia dos Santos Rossi Ribeiro , Carlos Juliano da Silva e Vanessa Gonçalves dos Santos
4EEK	Bioprospection for Antileishmanial Activity and Identification of Bioactive Metabolites of Calycophyllum spruceanum by Molecular Docking and Metabolomic Analysis	Joseph Albert Medeiros Evaristo , Elise Bitencourte de Laia , Bruna Fonseca Tavares , Fernando Loza Guariero , Esdras Abimael Maia Mendonça , Sheila Barreto Guterres , Fernando Zanchi , Fábio César Sousa Nogueira e Geisa Paulino Caprini Evaristo
4EEN	Deterioration of Pesticides in Soil Cultivated with Coffee: Gamma Irradiation, GC/MS/MS and Modified QuEChERS Methodology.	Keila dos Santos Cople Lima , Antonio Luís dos Santos Lima , Paulo Carvalho Brabo e Otniel Freitas Silva
4EER	Metabolomic analysis of gonads and liver of fish exposed to effluent of pulp and paper mills.	Carlos H L Soares e Ivana Eunice Baptista
4EET	Mapping metabolites and microbes on ascidians to investigate symbiotic relationships	Anelize Bauermeister , Luciana Costa Furtado , Pablo Suarez , Eduarda Antunes Moreira , Andres Maurício Caraballo Rodriguez , Helena Mannocho Russo , Tito Lotufo , Francisca Andréa da Silva Oliveira , Norberto Peporine Lopes , Alejandra Prieto Davó , Pieter Dorrestein e Leticia Veras Costa-Lotufo
4EF2	Untargeted SPME-GC-MS to detect fraud in roasted and ground coffee	Cinthia de Carvalho Couto
4EF4	Singlet molecular oxygen (1O_2) involved in protein aggregation: biological consequence, analysis and characterization by orbitrap-nLC-MS/MS	Emerson Finco Marques, Paolo Di Mascio